

REMARKS

The Office Action dated March 5, 2009 has been received and carefully noted. The above amendments to the claims, and the following remarks, are submitted as a full and complete response thereto.

Claims 1-20, 23-25, 27-31 have been amended to more particularly point out and distinctly claim the subject matter of the invention. New claim 32 has been added. No new matter has been added. Claims 1-20, 23-25, and 27-32 are currently pending and respectfully submitted for consideration.

The Office Action rejected claims 1-31 under 35 U.S.C. §102(b) as being anticipated by Karaoguz (U.S. Patent Pub. No. 2002/0059434). This rejection is respectfully traversed for at least the following reasons.

Claim 1, upon which claims 2-20 are dependent, recites a method including receiving, from a mobile network, an indication at a multimode terminal operably connected to the mobile network. The indication indicates that services may be locally available via at least one short-range wireless network. The method further includes, based on the indication, collecting service information about services for the multimode terminal available through at least one short-range radio interface of the multimode terminal, and, based on the service information collected, compiling a service list describing at least one service available through the at least one short-range radio interface.

Claim 27, upon which claims 23-25 and 28-31 are dependent, recites an apparatus including a first radio interface operably connectable to a mobile network, and at least one short-range radio interface. The apparatus further includes a receiver configured to receive an indication, from the mobile network, through the first radio interface. The indication indicates that services may be locally available for the multimode terminal via at least one short-range wireless network. The apparatus also includes a controller configured to collect service information about services available via at least one of the at least one short-range wireless network, and compile a service list based on the service information collected. The service list describes at least one service available via the at least one of the at least one short-range wireless network.

Claim 32 recites an apparatus including a first radio interface operably connectable to a mobile network, and at least one short-range radio interface. The apparatus also includes receiving means for receiving an indication, from the mobile network, through the first radio interface. The indication indicates that services may be locally available for the multimode terminal via at least one short-range wireless network. The apparatus further includes information collection means, responsive to the reception means, for collecting service information about services available via at least one of the at least one short-range wireless network, and service indication means for compiling a service list based on the service information collected. The service list describes at least one service available via the at least one of the at least one short-range wireless network.

As will be discussed below, Karaoguz fails to disclose or suggest all of the elements of the claims, and therefore fails to provide the features discussed above.

Karaoguz discloses systems and methods for implementing multi-mode wireless communication devices such as PDAs or multi-function mobile phones that take advantage of the wireless networks in their proximity. In the case where a nearby wireless network happens to provide more data bandwidth and/or better quality of service, a multi-mode wireless device may switch to that particular wireless network to access these services. A multi-mode controller in the device may be used to alternately poll different networks to determine whether the device is within the area of coverage of a network and to selectively establish communications with those networks.

Applicants respectfully submit that Karaoguz fails to disclose or suggest all of the elements of the present claims. For example, Karaoguz does not disclose or suggest, at least, “receiving, from a mobile network, an indication at a multimode terminal operably connected to the mobile network, the indication indicating that services may be locally available via at least one short-range wireless network,” as recited in claim 1. Similarly, Karaoguz fails to disclose or suggest “a receiver configured to receive an indication, from the mobile network, through the first radio interface, the indication indicating that services may be locally available for the multimode terminal via at least one short-range wireless network,” as recited in claim 27 and similarly recited in claim 32.

According to embodiments of the present invention, a mobile network is utilized to indicate to a multimode terminal that the geographical area where the terminal is

currently located may include alternative technologies for accessing services, such as short range wireless systems. When the terminal receives this indication, it starts to collect information about such systems or services. (Specification, page 3, lines 11-15). As illustrated in Fig. 2 of the present specification, in one embodiment, when a terminal enters the cell or is switched on in a cell where local services are available, the terminal receives the indication. (Specification, Fig. 2, step 200). In response to the reception of the indication, the terminal starts to search for short-range radio networks through its short-range radio interfaces. (Specification, page 6, lines 22-26).

Karaoguz, on the other hand, fails to disclose or suggest receiving any indication from the mobile network indicating that services may be available via a short-range wireless network. Although Karaoguz discloses that a “multimode controller 80 receives network information 88 indicative of whether the device is within range of a supported network” (Karaoguz, paragraph 0044), Karaoguz does not disclose that this network information is received from the mobile network. Rather, it appears that, according to Karaoguz, the device itself informs the multimode controller of whether the device is within range of a supported network. In other words, according to Karaoguz, the network information is provided by the device, not by the mobile network. In particular, paragraph 0035 of Karaoguz provides that “each multi-mode communication device 30 or 34 determines whether it is within the area of coverage of a type of network that is supported by the multi-mode communication device” (Karaoguz, paragraph 0035). Nowhere does Karaoguz disclose receiving an indication indicating that services may be

available via a short-range wireless network **from the mobile network**. Fig. 4 of Karaoguz, and the corresponding sections of the description (paragraphs 0044-0050), does not disclose that the “network information” is received from an outside source, such as the mobile network.

Fig. 14 of Karaoguz discloses explicitly how the presence or absence of short-range networks (Bluetooth or 802.11) is detected, and the result of such detection is the “network information 88” shown in Figure 4. In connection with Figure 14, Karaoguz discloses that the detection of short-range networks (Blue-tooth or 802.11) is initiated in step 232: “In the absence of any network connection, the dual-mode controller initiates a new network scan request 232 every ‘CFP Maximum Duration’ per 802.11b MAC specification” (Karaoguz, paragraph 0086). Because the “dual-mode controller,” which is an embodiment of the “multi-mode controller,” resides in the communication device (terminal), it is the terminal and not the mobile network that initiates the detection of short-range networks.

Therefore, for at least the reasons outlined above, Karaoguz does not disclose or suggest, at least, “receiving, from a mobile network, an indication at a multimode terminal operably connected to the mobile network, the indication indicating that services may be locally available via at least one short-range wireless network,” as recited in claim 1. Similarly, Karaoguz fails to disclose or suggest “a receiver configured to receive an indication, from the mobile network, through the first radio interface, the indication indicating that services may be locally available for the multimode terminal via at least

one short-range wireless network,” as recited in claim 27 and similarly recited in claim 32.

Furthermore, Applicants respectfully submit that Karaoguz fails to disclose or suggest, “controlling the multimode terminal to a power save state with respect to a short-range radio interface after service information is collected through that short-range radio interface, or when no network is detected through that short-range radio interface,” as recited in claim 4 and similarly recited in claim 30. Karaoguz is silent regarding any power save functionality. Karaoguz occasionally uses the term “idle,” but those of ordinary skill in the art would recognize that a power save state with respect to a short-range radio interface means powering off (not simply failing to transmit by) the short-range radio interface. Thus, Karaoguz fails to disclose or suggest the limitations of claims 4 and 30.

Additionally, Karaoguz fails to disclose or suggest, “wherein the indication received from the mobile network includes instructive information for the collecting of said service information,” as recited in claim 7; “wherein the instructive information comprises at least one network address,” as recited in claim 8; “extracting the at least one network address from the indication; and gathering the service information based on the at least one network address,” as recited in claim 10; and “wherein the network address is an internet protocol address,” as recited in claim 11. As discussed above, Karaoguz does not disclose an indication received from the mobile network. Karaoguz similarly fails to

disclose or suggest a network address extracted from the indication. Therefore, Karaoguz fails to disclose or suggest the limitations of claims 7, 8, 10, and 11.

Karaoguz also fails to disclose or suggest, “wherein the presenting comprises presenting a required connectivity standard for each of the at least one service,” as recited in claim 16; and “wherein the service list comprises service providers corresponding to the at least one service,” as recited in claim 17. Karaoguz is silent regarding the presentation of a required connectivity standard, and also does not mention a service list comprising service providers.

Further, Karaoguz does not disclose or suggest, “receiving the indication as part of system information sent from the mobile network,” as recited in claim 19. As discussed above, Karaoguz fails to disclose receiving an indication from the mobile network and, therefore, also fails to disclose receiving the indication as part of system information sent from the mobile network.

Claims 2-20, 23-25 and 28-31 are dependent upon claims 1 and 27, respectively. As such, claims 2-20, 23-25 and 28-31 should be allowed for at least their dependence upon claims 1 and 27, and for the specific limitations recited therein.

For at least the reasons discussed above, Applicants respectfully submit that Karaoguz fails to disclose or suggest all of the elements of the claimed invention. These distinctions are more than sufficient to render the claimed invention unanticipated and unobvious. It is therefore respectfully requested that all of claims 1-20, 23-25, and 27-32 be allowed, and this application passed to issue.

If for any reason the Examiner determines that the application is not now in condition for allowance, it is respectfully requested that the Examiner contact, by telephone, the applicant's undersigned representative at the indicated telephone number to arrange for an interview to expedite the disposition of this application.

In the event this paper is not being timely filed, the applicant respectfully petitions for an appropriate extension of time. Any fees for such an extension together with any additional fees may be charged to Counsel's Deposit Account 50-2222.

Respectfully submitted,



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Enclosures: Petition for Extension of Time